

①

Hill 5300

April 22, 1963

Report
Thickness

Unit No. Rock Type

①	Chert Pebble conglomerate is coarse to matrix Fresh color - light brownish grey - weathered color - tan Chert pebbles up to 1 in. Fossils: ? <u>Neospirifer</u> , large <u>Reed</u> <u>Calymene</u> , corals, huge crinoid brach. <u>Oncophyllum</u> <u>Saccachinella</u> (small), <u>Endoceras</u> , tektoids,	111 + 8.8' 42'
SP = 97	Top of ledge (dip 5-10°)	
CP = 202	Covered slope -	9.6'
DR = 50'		
②	Platy calcarenous chert pebbles is large size chert nodules	5.5'
③	In gully Lenticular calcarenous is rocky 5.5' patches	
	Covered slope	27.5'
④	Calcareous csgl. & pebbles is gravel of rocky chert	11'

5.5
6
33.0
8.8
41.8

②

Apr. 22 Hill 5300

Grant level - eye height 5.5'

Devonian covered slope of 2 levels 5' V
of rusty lime at the top 10'

↑ ↓

③ shale - brownish green & 27.5'
pop. tanke greenish brown ls. beds (1' thick)
about every 10' ls. is overall
Dip approx. 11°

⑥

Shaly limestone - brownish yellow. 11'
6-12" ls. beds & 6" to 3'
of shale between ls. beds.

⑦

Gray and brown shale & 6"-12" bed
of brown siltstone in middle, about 22'
11' above base.

⑧

This is by medium bedded platy siltstone 33'
& intercalated shales, lime increasing
toward the top

⑨

Conglomerate & chert pebbles 5.5'
and ls. pebbles + boulders;
large crinoid stems.

Strophynchus or Diplomus

⑩

Evenly bedded ls. & layers of 23'
rusty chert & intercalated 10-12" beds
of silty shale. Lime becomes

(3)

less silty & fossils appearing often
 top. Pericycos? Fossil collected at
 the top. 4-22-1

Previous 4 units are brown in color.

(11) Grey conglomerate; large lime cobbles
 chert pebbles, large crinoid slabs,
Meekella caparola? Neospirifer, 9.5'
Flusfeldia, Diplomus, Orthotetradium,
Enteletes, Syngonopora type coral,
 Top bed is a gray limestone.

(12) Even bedded cherty limestone 7
 15' beds of 7-10" thick & occasional
 intercalated 6" beds of very bedded
 siltstone. Lepidodus flusfeldia,
 3" bands of rusty chert. (4-22-2) 38.5'
?Spiridiophora
 Platy siltstone top 6'

(13) Tan conglomerate - very poorly sorted
 chert pebbles, 15. cobbles and 5.5'
 boulders.

DR =

Good ledge former.

Convoluted shape

9.5'

55
27.5
82.5

24
5.5
12.0
120
132

56
5.5
28.0
280
3080 194
194
2134

⑨

⑩

W. of some conglomerate

16'

⑪

This is medium bedded
calcareous & siliceous fragments 27.5'
Brown & grey.

⑫

Beds finely laminated cal.
siltstone & some reddish chert. 38'
At 22.5' level 2' bed of
grey ls. Another 2' low bed at
182' level. 5' lens of grey
ls. at the 213' level.
Top 33' is a soft gray shale.

⑬

Bed, tan, grey boulder line
conglomerate much chert. Looks
like a boulders. Color is strikingly 55'
different from below. Forms a
cap on the top knob.
Numerous solitary corals. Entelites.
Some branching corals of Sympycnus
type. Large orthoceras - possibly Meekella

This is top of Hill # 5300

Base & dendritic scree Lophidium -
Echinosteges - Large spines
evenly spaced over VV.

5

Windmill Hill

April 22, 1963

5K of Windmills - chert conglomerate \approx C
chert pebbles in chert matrix.

Below chert on East side of Windmill Hill
Grey arenaceous limestone or calcarenous
Thickness 10'-20'. Also caps
small rise NE of Windmill Hill.

Green & brown siltstone below the line.

True brown conglomerate around main hill

Rock above brown congl. is tan & grey
massive conglomeratic limestone & ls. cobbles
& scattered chert pebbles & big crinoid stems.
Typical Skinner Ranch fm.

20 levels in top of shp block at
WMH

275' to base of ledge (conglomerate)
ledge 49.5' thick

The intervening shale is 55' thick
Is actually a covered slope.

Base of upper ledge is 5' thick bed
in crinoid siltstone

(6)

Conchofornia on upper ledge

33' to base of upper ledge next
hill to Northeast. Middle Hill

On hill 5021, just below, ledges
one level apart.

The lower ledge, disappears shortly
NE of middle hill. The lower ledge is
NE hill ~~is~~ to be off the lower ledge
(Lander says no!)

Lower ledge in NE hill is about 100'
long then it disappears also.

Little knoll at NE end of ridge overlooking
5021. All face is about 20' of
Lemont Hill's fm. (coarse engl.) top
is Deer Ranch b. engl. & eroded stems.

Lemont Hill's engl. is about 50' thick
on NE side of hill at end of ridge 5021.
Same engl. is only 17' thick on SW side.

Base of hill that projects East from
5021 about 4500' concretion is coarse
grained ss. & normal dip. Top of
hill covered by rubble from

5.5
11
385
55
93.5

(7)

Stevens Ranch Fm.

Note: The lower edge of middle hill
seems to simply quit. The apparent
higher ledge previously noted is probably
merely a continuation of nearly horizontal of
upper ledge, & the apparent seem due to
being both down dip in the hill.

4-28-1

Measured from ledge containing
Neosparis, Oolithoceras, Nechella or
Cavellia, Muschella, Rhynchoceras
Liza, Ullerella, Matoceras, large Crinoid
cavellia's, small silty crinoid conks &
Heterospira.

Covered slope 93.5'

This bedded (68") of dark grey
calcareous to rusty red on bedding
plane up to 2" thick is moderately
brownish gray in some

Covered ledge 11'

Base of cliff composed of brown
calcareous, clear pebbles to boulders.
Thickness, 82.5'

(6)

Rock grey 15-6' bed's & dark layers
Orthoceras, Reticularina? Striatisera?
Hustedia, richfield of some sort,

4-23-2 Back slope of Cliff 5300 at East end.
Fossils: *Metaceraspis*, large crinoid columnals,
Gidleyella, *Orthoceraspis*, *Plumulites*,
Sullivan Ledge mbr.
Grey yellow, wide & dark bands on
bedding planes
Syringites, *Leptostid* of some sort,
Hustedia

①

Hill No. 1 of Hess Ranch

April 24, 1963

②

Wolffcamp conglomate at base
of Hill 71.5'

③

Copred slope to top of hill 63'
at extreme west end of 4-24-1

Folded strata dips on east part of
hill No. 1 of Hess Ranch. Slope

Dip direction is N20E

Dip 5°

Strike N20W

Strike N45E East of last shot

Dip 15° N

4.95
2.6
2.985
9.96
12.918

5.5
80
440.0

⑩

Hill S 305 424-2 April 24, 1963

Hess Ranch Host measured from road.

① Lateral slope 22'

② Limestone congl. & clast. pebbles
and lime cobbles, massively
bedded, rounded weathered surfaces,
top weathered fresh gray
gray. Section exposed along
pedern. 11' to base of congl.
bedrock dips, massive initial
cross-bedding? Lg dolomitized
from N. side of hill. 440'

③ Made of same as ② the Just a guess
impossibly like bedrock
On back slope of hill. ↳ 30' ±

④ → dip on back slope ca. 30° $N 20^{\circ} W$

26 levels
at 25°

ca. 130'
more
above
unit ③

across back spur heading $N 25^{\circ} W$ (ca down-dip)
congl. & dolomitized congl. in
calcareous matrix, massive X beds
with many odd dips

top beds of back slope
coarse dark dolomite
another dip. at st. d = $25^{\circ} N$, st. = $N 60^{\circ} E$

11

75'

along back spur (25° dip)
to level of fossil hash
Leptodus? *Neophracodothyris*
big *Derbyia*?

95'

(at 25° dip) + base of shale
at base of knot
top ls bed has *Hustedia*, *Atiplicus*,
Neospir. Rhip. on skin of
silicification

50'

yellow shale w/ thin silty ls layers

20'

massive tan bioturb cap to knot

85'

Dolomite cap to back slope
huge crin cols on topmost bed pls.

5.3
37.1

5.3
32
106
159
170

(12)

Exotic Block on L.M.

4-25-63

We will measure the main exotic block starting from the upper coarse bracon conglomerate. The same congl. occurs in 5 separate beds in the low hill adjoining ours to the East. Here they 3 beds are separated by pale silstones or sandstones. Since these beds are possibly not in place in relation to the main exotic block, we are starting at the top of a similar congl. as a datum. in the main block. Top of saddle is start.

① Top of brown coarse congl. composed of large ls. cobbles, very poorly sorted. Shaly slope. REC using Bauson set at 15° dip. 53'

② Grayish brown, e.g. & smaller cobbles and pebbles. Coarse sand, only ls. pebbles mainly, little chert. 5.3'

③ Coarse slope
Covered in brown-gray conglomerate
(Assume congl. underfull?) 170'

④ Gray to tan, coarsely & fine ls. 37' to
gray on fresh, tan on weathered base of large
shaly limestone, 6-8' thick. Congl. boulders

$$\begin{array}{r} 4.5 \\ 1.9 \\ \hline 315 \\ 45 \\ \hline 765 \end{array}$$
$$\begin{array}{r} 4.5 \\ 2.5 \\ \hline 2.5 \\ 9.0 \\ \hline 11.00 \end{array} \quad \begin{array}{r} 4.5 \\ 3.2 \\ \hline 9.0 \\ 1.35 \\ \hline 14.4 \end{array} \quad \begin{array}{r} 4.5 \\ 5 \\ \hline 22.5 \end{array}$$
$$\begin{array}{r} 4.5 \\ 1.3 \\ \hline 1.35 \\ 4.5 \\ \hline 5.85 \end{array}$$
$$\begin{array}{r} 4.5 \\ 4.5 \\ \hline 40.5 \end{array} \quad \begin{array}{r} 4.5 \\ 6 \\ \hline 27.0 \end{array}$$

(13)

wc cyl.

(3)

New going 35° dip. Bay of huge
and. boulders. Gray. too gray
composed mainly of gray & boulders
and pebbles, some very shaly pebbles.
Very angular boulders. Some boulders
appear to be quite chaotic, others almost
completely 15° boulders of considerable
size.

144'

(6)

loosely fine edwards

22.5'

(7)

like goldsmith Hill typical drift
pebble cyl.

(8)

loosely fine ls.

40.5'

(9)

fine pebble cyl.

3/6

4.5'

(10)

Covered slope

27'

(11)

loosely fine edwards massive
bedded

76.5'

(12)

Apparently same but darker
brown. Looks decompacted
Level 14 1/2 top of cliff.
Continued to base of Leonard Mtn.

112.5'

(13)

Cover

58.5'

45
9
405

(14)

(14)

Coarsely siliceous calcarenous
Deeply weathered.
Siltstone at base of mountain

Rubble slope on Leonard Mtn. contains
boulders of sandst. similar to those found
on eratic blocks.

40.5'